

FIG. 1

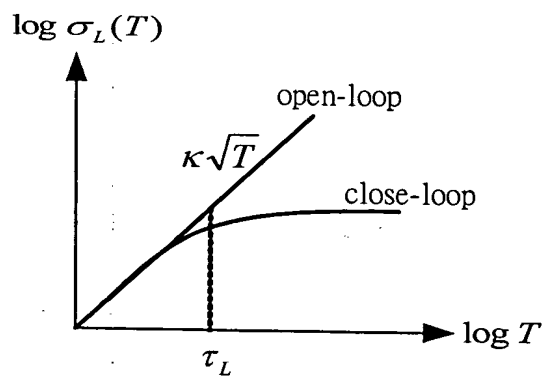


FIG. 2

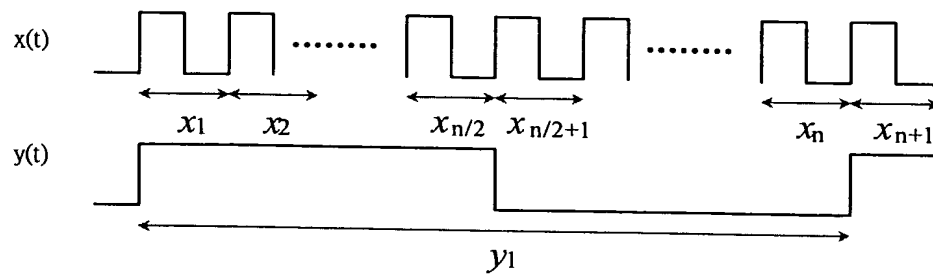


FIG. 3

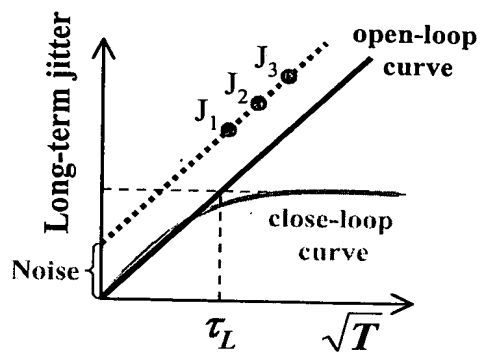


FIG. 4a

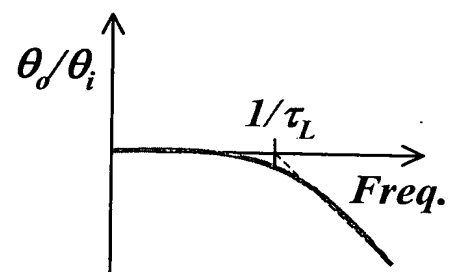


FIG. 4b

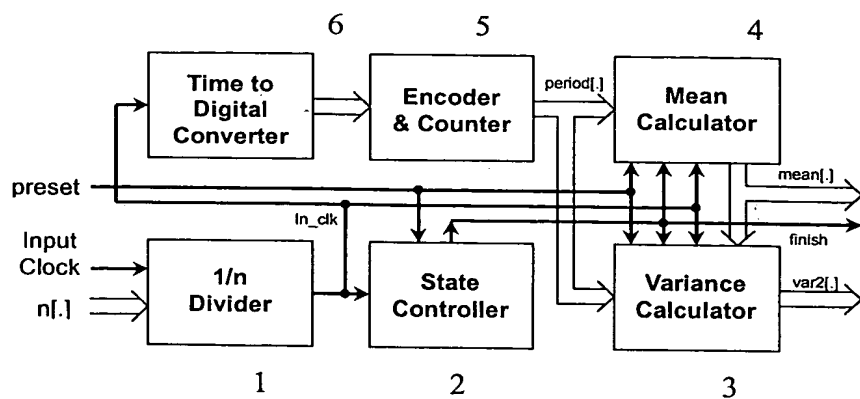


FIG. 5

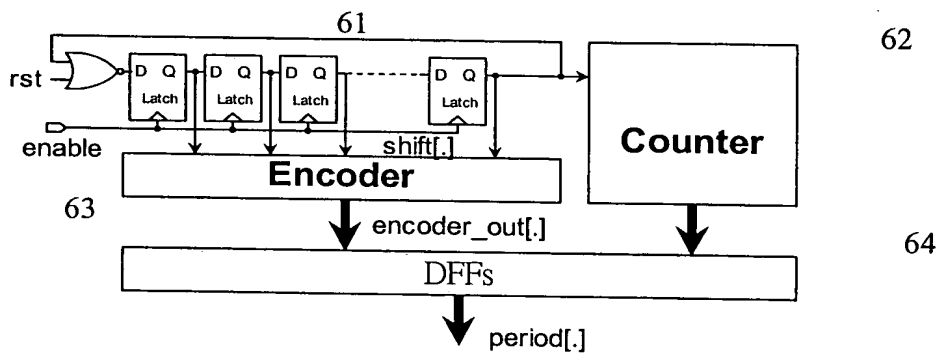


FIG. 6a

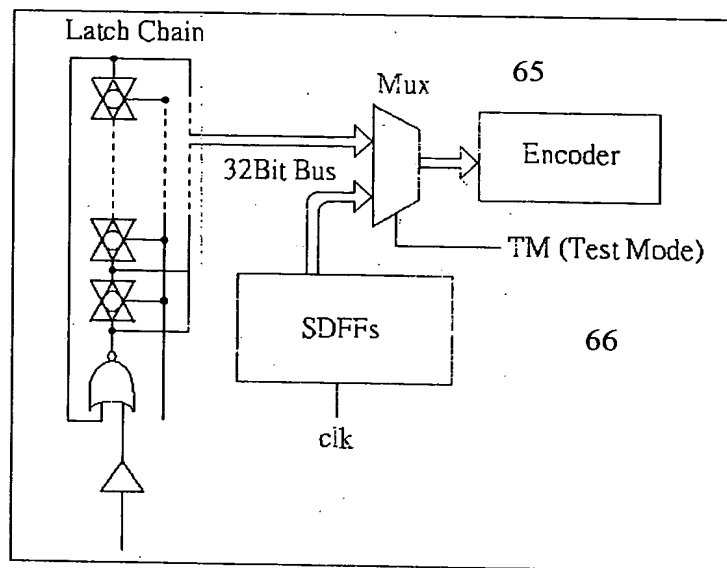


FIG. 6b

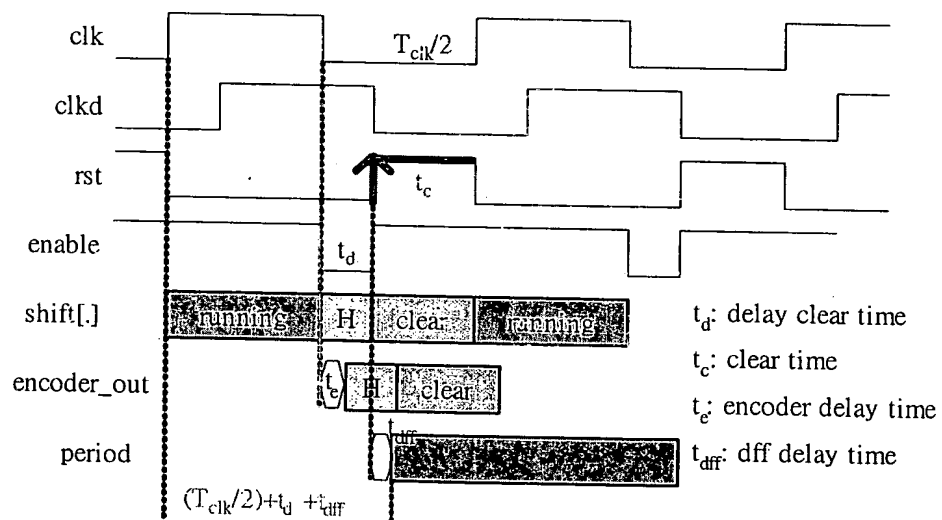


FIG. 7

Steps	Actual depicted time	T.E.	Indicated depicted time	Error	E.E.	Indicated depicted time	Error
0	0	0	0	0	0	0	0
1	0.2ns	1	0.3ns	33%	1	0.3ns	33%
2	0.4ns	2	0.6ns	67%	1	0.3ns	33%
3	0.6ns	3	0.9ns	100%	2	0.6ns	0
4	0.8ns	4	1.2ns	133%	3	0.9ns	33%
5	1.2ns	5	1.5ns	100%	4	1.2ns	0
6	1.6ns	6	1.8ns	67%	5	1.5ns	33%
7	2ns	7	2.1ns	33%	7	2.1ns	33%
8	2.4ns	8	2.4ns	0	8	2.4ns	0

FIG. 8

Input			Output		Jitter σ_m (ps)	Error (%)
T (ns)	n	σ_x (ps)	<i>mean</i>	<i>var2</i>		
40	64	300	8544	63	297.3	-0.91
20	64	300	4273	61	292.5	-2.52
10	64	300	2138	62	294.6	-1.79
8	64	300	1711	59	287.3	-4.23
4	64	300	856	64	299.1	-0.31
2	64	300	Unable to simulate			

FIG. 9

Input			Output		Jitter σ_m (ps) n	Error (%) σ_x (ps)
T (ns)	n	σ_x (ps)	<i>mean</i>	T (ns)		
10	2	300	69	1	0.2050	-31.68
10	4	300	137	4	0.2920	-2.68
10	8	300	269	8	0.2974	-0.87
10	12	300	412	14	0.3146	4.87
10	16	300	536	17	0.3077	2.56
10	24	300	804	24	0.2985	-0.50
10	32	300	1071	33	0.3034	1.14
10	64	300	2138	62	0.2946	-1.79
10	128	300	4274	131	0.3030	0.99
10	96	1000	3205	1094	1.0112	1.12
10	128	1000	Unable to simulate			

FIG. 10

Input			Output		Jitter	Error
T (ns)	n	σ_x (ps)	$mean$	T (ns)	σ_m (ps) n	(%) σ_x (ps)
10	64	50	2138	4	74.8	49.67
10	64	100	2138	9	112.3	12.25
10	64	150	2138	17	154.3	2.85
10	64	200	2138	29	201.5	0.75
10	64	300	2138	62	294.6	-1.79
10	64	500	2137	171	489.5	-2.09
10	64	1000	2136	667	967.3	-3.27
10	64	2000	Unable to simulate			
1.5	1024	100	5129	117	101.2	1.23
1.5	1024	80	5128	77	82.14	2.67
1.5	1024	60	5128	42	60.66	1.10
1.5	1024	50	5128	29	50.41	0.81
1.5	1024	40	2136	19	40.80	2.00

FIG. 11